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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A portable electronic device, comprising:

a first contact surface arranged to be brought into contacting with a head first skin surface of an individual during usage of the device;

a second contact surface arranged to contacting a second skin surface on a part of a body hand of the individual below a shoulder line of the individual, wherein the first contact surface comprises a first electrode and the second contact surface comprises a second electrode, said first electrode being electrically isolated from said second electrode; and

a measuring component for measuring an electrical <u>differential</u> signal <u>in an ECG</u> spectrum generated by cardiac activity from said first electrode and said second electrode during the usage of said device, said electrical <u>differential</u> signal being representative of a physiological condition of said individual.

- 2. (Currently amended) The device according to claim 1, wherein said device further comprises a sensor signal interpretation unit arranged to perform an analysis of said electrical differential signal in order to derive a health-related parameter related to the cardiac activity.
- 3. (Previously presented) The device according to claim 2, wherein said device further comprises a user interface connectable to said sensor signal interpretation unit, said user interface being arranged to present said health-related parameter to the individual.
- 4. (Previously presented) The device according to claim 3, wherein said device further comprises a transmission component arranged to forward said health-related parameter to a remotely arranged unit.

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5. (Cancelled)

6. (Currently amended) The device according to claim [[5]]4, wherein said device is an electric shaver, the first contact surface comprising a front surface of a shaving head, the second contact surface comprising a grip portion of the shaver.

- 7. (Currently amended) The device according to claim [[5]]4, wherein said device is an electric shaver comprising a plurality of shaving heads, the first contact surface comprising a first electrode, the second contact surface comprising a second electrode, the electrical shaver further comprising a grip portion, said portion being arranged to comprise a further electrode conceived to provide a reference signal.
- 8. (Currently amended) The device according to claim [[5]]4, wherein said device is an electric toothbrush, the first contact surface comprising a brush head, the second contact surface comprising a grip portion of the toothbrush.
- 9. (Currently amended) The device according to claim [[5]]4, wherein said device is a telephone handset, the first contact surface comprising a housing area of the telephone handset, said area being arranged in a direct vicinity of an earpiece, the second contact surface comprising a grip portion of the telephone handset.
- 10. (Previously presented) The device according to claim 9, wherein said telephone handset is a mobile telephone handset, the first contact surface comprising a keypad, the second contact surface comprising a grip portion of the mobile telephone handset.
- 11. (Currently amended) The device according to claim [[5]]4, wherein said device comprises an earphone and a body unit, the first contact surface being arranged on the earphone, the second contact surface being arranged on the body unit.

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12. (Currently amended) A health management system arranged to monitor a physiological condition of an individual, said system comprising:

order to derive a health-related parameter related to the cardiac activity;

a portable electronic device arranged to detect <u>and measure</u> an <u>electrical differential</u> signal <u>in an ECG spectrum generated by cardiac activity</u> representative of said condition; a sensor signal interpretation unit arranged to analyze said <u>electrical differential</u> signal in

a transmission component arranged to <u>be</u> actuated by said <u>sensor signal interpretation unit</u> analysis means, said transmission means being arranged to forward said parameter to a remotely arranged medical care provider, said provider being arranged to process said parameter in order to derive a health condition of said individual; wherein

said device comprising a first contact surface arranged to be brought into contacting with a head first skin surface of an individual during usage of the device and a second contact surface arranged to contacting a second skin surface of a hand on a part of a body of the individual, wherein the first contact surface comprises a first electrode and the second contact surface comprises a second electrode, said first electrode being electrically isolated from said second electrode; the device further comprising a measuring component for measuring an the electrical differential signal from said first electrode and said second electrode during the usage of said device, said electrical signal being representative of a the physiological condition of said individual.

- 13. (Previously presented) The health management system according to claim 12, wherein the transmission component is arranged for transmitting said parameter by means of a wireless signal to a base unit arranged to enable a connection to the medical care provider by means of a communication network.
- 14. (Previously presented) The health management system according to claim 12, wherein the device further comprises a user interface arranged to be actuated by the sensor signal interpretation unit, said user interface being arranged to present said parameter to the individual.
- 15. (Cancelled)

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- 16. (Previously presented) The health management system according to claim 12, wherein said device is an electric shaver, the first contact surface comprising a front surface of a shaving head, the second contact surface comprising a grip portion of the shaver.
- 17. (Previously presented) The health management system according to claim 12, wherein said device is an electric shaver comprising a plurality of shaving heads, the first contact surface comprising a first electrode, the second contact surface comprising a second electrode, the electrical shaver further comprising a grip portion, said portion being arranged to comprise a further electrode conceived to provide a reference signal.

18. (Cancelled)

- 19. (Previously presented) The health management system according to claim 12, wherein said device is a telephone handset, the first contact surface comprising a housing area of the telephone handset, said area being arranged in a direct vicinity of an earpiece, the second contact surface comprising a grip portion of the telephone handset.
- 20. (Previously presented) The health management system according to claim 19, wherein said telephone handset is a mobile telephone handset, the first contact surface comprising a keypad, the second contact surface comprising a grip portion of the mobile telephone handset.
- 21. (New) The device according to claim 2, further including a differential amplifier wherein the electrical differential signal is input to prior to being input to the sensor signal interpretation.
- 22. (New) The health management system according to claim 12, further including a differential amplifier wherein the electrical differential signal is input to prior to being input to the sensor signal interpretation.

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23. (New) A method, comprising:

measuring with a measuring component an electrical differential signal in an ECG spectrum generated by cardiac activity of an individual during usage of a portable electronic device, said electrical differential signal being measured from a first contact surface contacting a first skin surface of the individual and a second contact surface contacting a second skin surface on a part of the body of the individual below a shoulder line of the individual, the first contact surface comprising a first electrode and the second contact surface comprising a second electrode, said first electrode being electrically isolated from said second electrode during usage of said device, said signal being representative of a physiological condition of said individual;

amplifying the signal with a differential amplifier;

filtering the signal with a filter;

digitizing the signal with an analog to digital converter; and

analyzing the signal with a sensor signal interpretation unit in order to derive a healthrelated parameter related to the cardiac activity.